YAMAHA

NUAGE

NUAGE MASTER

CONTROL SURFACE
Ncs500-CT

Getting Started

EN

FCC INFORMATION (U.S.A.)

1. **IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!**
   This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.
2. **IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.
3. **NOTE:** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

   Relocate either this product or the device that is being affected by the interference.

   Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

   In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.

   If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA90620

   The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA. (class B)

COMPLIANCE INFORMATION STATEMENT (DECLARATION OF CONFORMITY PROCEDURE)

Responsible Party : Yamaha Corporation of America
Address : 6600 Orangethorpe Ave., Buena Park, Calif. 90620
Telephone : 714-522-9011
Type of Equipment : Control Surface
Model Name : Ncs500-CT

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1) this device may not cause harmful interference, and

2) this device must accept any interference received including interference that may cause undesired operation.

See user manual instructions if interference to radio reception is suspected.

* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA. (FCC DoC)

IMPORTANT NOTICE FOR THE UNITED KINGDOM

Connecting the Plug and Cord

WARNING: THIS APPARATUS MUST BE EARTHED IMPORTANT. The wires in this mains lead are coloured in accordance with the following code:

GREEN-AND-YELLOW : EARTH
BLUE : NEUTRAL
BROWN : LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured GREEN-and-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or colored GREEN or GREEN-and-YELLOW.

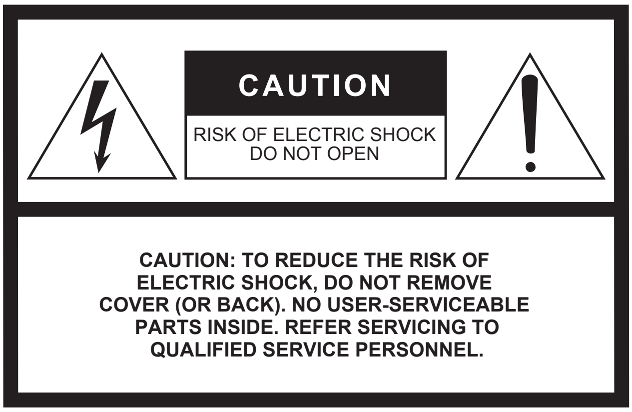
The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

(3 wires)

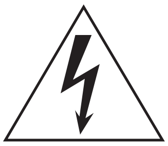
이 기기는 가정용(B급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

(class b korea)



The above warning is located on the rear of the unit.

Explanation of Graphical Symbols



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

IMPORTANT SAFETY INSTRUCTIONS

1 Read these instructions.
2 Keep these instructions.
3 Heed all warnings.
4 Follow all instructions.
5 Do not use this apparatus near water.
6 Clean only with dry cloth.
7 Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11 Only use attachments/accessories specified by the manufacturer.
12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.



13 Unplug this apparatus during lightning storms or when unused for long periods of time.
14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

(UL60065_03)

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PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

* Please keep this manual in a safe place for future reference.

⚠ *WARNING*

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

Power supply/Power cord

- Do not place the power cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.
- Only use the voltage specified as correct for the device. The required voltage is printed on the name plate of the device.
- Use only the supplied power cord/plug.
  If you intend to use the device in an area other than in the one you purchased, the included power cord may not be compatible. Please check with your Yamaha dealer.
- Check the electric plug periodically and remove any dirt or dust which may have accumulated on it.
- Be sure to connect to an appropriate outlet with a protective grounding connection. Improper grounding can result in electrical shock.

Do not open

- This device contains no user-serviceable parts. Do not open the device or attempt to disassemble the internal parts or modify them in any way. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.

Water warning

- Do not expose the device to rain, use it near water or in damp or wet conditions, or place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings. If any liquid such as water seeps into the device, turn off the power immediately and unplug the power cord from the AC outlet. Then have the device inspected by qualified Yamaha service personnel.
- Never insert or remove an electric plug with wet hands.

Fire warning

- Do not put burning items, such as candles, on the unit. A burning item may fall over and cause a fire.

If you notice any abnormality

- When one of the following problems occur, immediately turn off the power switch and disconnect the electric plug from the outlet. Then have the device inspected by Yamaha service personnel.
  - The power cord or plug becomes frayed or damaged.
  - It emits unusual smells or smoke.
  - Some object has been dropped into the instrument.

⚠ *CAUTION*

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the device or other property. These precautions include, but are not limited to, the following:

Power supply/Power cord

- When removing the electric plug from the device or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it.
- Remove the electric plug from the outlet when the device is not to be used for extended periods of time, or during electrical storms.

Location

- Do not place the device in an unstable position where it might accidentally fall over.
- Do not place the device in a location where it may come into contact with corrosive gases or salt air. Doing so may result in malfunction.
- Before moving the device, remove all connected cables.
- When setting up the device, make sure that the rear-panel power switch can be easily turned ON/OFF. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet.

Connections

- Before connecting the device to other devices, turn off the power for all devices. Before turning the power on or off for all devices, set all volume levels to minimum.

Maintenance

- Remove the power plug from the AC outlet when cleaning the device.

Handling caution

- Do not insert your fingers or hands in any gaps or openings on the device (vents, disc slots, ports, etc.).
- Avoid inserting or dropping foreign objects (paper, plastic, metal, etc.) into any gaps or openings on the device (vents, disc slots, ports, etc.) If this happens, turn off the power immediately and unplug the power cord from the AC outlet. Then have the device inspected by qualified Yamaha service personnel.
- Do not rest your weight on the device or place heavy objects on it, and avoid use excessive force on the buttons, switches or connectors.
- Do not use the headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the device, or data that is lost or destroyed.

PA_en_1 1/1

NOTICE

To avoid the possibility of malfunction/ damage to the product, damage to data, or damage to other property, follow the notices below.

Handling and Maintenance

- Do not use the device in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Otherwise, the device, TV, or radio may generate noise.
- Do not expose the device to excessive dust or vibration, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day), in order to prevent the possibility of panel disfiguration, unstable operation, or damage to the internal components.
- Do not place vinyl, plastic or rubber objects on the device, since this might discolor the panel.
- When cleaning the device, use a dry and soft cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.
- Condensation can occur in the device due to rapid, drastic changes in ambient temperature — when the device is moved from one location to another, or air conditioning is turned on or off, for example. Using the device while condensation is present can cause damage. If there is reason to believe that condensation might have occurred, leave the device for several hours without turning on the power until the condensation has completely dried out.
- Never use a sharp or pointed object such as your fingernail to operate the touch screen. Doing so may scratch the screen and render the touch screen inoperable.
- Always turn the power off when the device is not in use.

Connectors

XLR-type connectors are wired as follows (IEC60268 standard): pin 1: ground, pin 2: hot (+), and pin 3: cold (-).

Information

About copyrights

Copying of the commercially available musical data including but not limited to MIDI data and/or audio data is strictly prohibited except for your personal use.

About this manual

- The illustrations and LCD screens as shown in this manual are for instructional purposes only, and may appear somewhat different from those on your device.
- Windows is a registered trademark of Microsoft® Corporation in the United States and other countries.
- Apple, Mac and Macintosh are trademarks of Apple Inc., registered in the U.S. and other countries.
- The company names and product names in this manual are the trademarks or registered trademarks of their respective companies.

The model number, serial number, power requirements, etc., may be found on or near the name plate, which is at the rear of the unit. You should note this serial number in the space provided below and retain this manual as a permanent record of your purchase to aid identification in the event of theft.

Model No. ______________________

Serial No. ______________________

(rear_en_01)

Introduction

A Message from the Development Team

Thank you for choosing a Nuage series Nuage Master unit.

The Nuage series is a professional music and sound production system based around Steinberg Nuendo digital audio workstation software.

Over the 20 years that have elapsed since Yamaha began offering DM and O series digital consoles and other equipment for post production and music production, work schedules have become notably tighter with less time available for individual projects. The Nuage series was created to respond to the deadline crunch with an optimized working environment that provides unprecedented efficiency as well as final quality.

The core of the system is Steinberg Nuendo, a DAW that is acclaimed for its outstanding workflow efficiency and sonic quality. The Nuage Master (Ncs500-CT control surface) and Nuage Fader (Ncs500-FD control surface) units were specifically developed to support and enhance Nuendo operability. Nuage Master provides a comprehensive concentration of post production controls in an efficient, easy-access layout. Nuage Fader integrates seamlessly with the Nuendo mixer window, providing an intuitive hands-on extension to the software.

And then there's the sound. Nuage I/O audio interface units have been designed to deliver the superior Nuendo sound without compromise. Three models are currently available: the Nio500-D16 with 16 channels of AES/EBU input and output, the Nio500-A16 with 16 channels of analog input and output, and the Nio500-A8D8 with a combination of 8 channels of analog and 8 channels of AES/EBU input and output. The Nuage I/O units connect to computers running Nuendo via the highly expandable Dante digital audio protocol, allowing multiple Nuage I/O units to be flexibly incorporated in a wide variety of system configurations. Monitoring latency is near zero for comfortable, stress-free monitoring while recording, even when multiple I/O units are used with cascaded monitor buses. The development team was adamant that near-zero latency would be essential to allow musicians and artists to deliver their full creative and performance potential.

Stability and dependability are essential in any professional working environment. In addition to minimizing latency, the Dante Accelerator (AIC128-D audio interface card) used in conjunction with the Nuage I/O units offers stable, reliable communication between I/O units and computer while allowing fast recovery from any problems that do arise. You can concentrate on the job at hand, secure in the knowledge that you'll be able to deliver great results on time.

Thanks to experience with the DM and O series, intensive research, and invaluable feedback from our users, it is our great pleasure to be able to deliver a new level of production support in the Nuage series. Our technology is there to give you unrestricted creative freedom, and we sincerely hope that the Nuage series plays a role in your growth and continued success.

The Yamaha Nuage series development team.

Included Accessories

NOTE
For the most up-to-date information on the following, please refer to the Yamaha Pro Audio website.
http://www.yamahaproaudio.com/

- **Jog Wheel**

  NOTE
  Attach this to the device.

- **Power Cable**
- **Brackets (2)**
- **Getting Started (this book)**

Items to Have Ready

- **Computer**

Running on Windows or Mac. Make sure to install Nuendo to your computer beforehand.

- **Network Switch**

A network switch that features various functions for controlling and monitoring the network (such as QoS, the ability to assign priority to data flows — e.g., clock synchronization or audio transmission on certain data circuits — and IGMP Snooping, the ability to filter unnecessary multi-cast traffic) is recommended.

- **Ethernet Cable**

A straight type (STP) of CAT5e or better is recommended.

- **Nuendo**

Nuendo is a DAW (Digital Audio Workstation) software developed by Steinberg. Version 6 or higher of Nuendo is compatible with the Nuage series.

- **TOOLS for NUAGE**

TOOLS for NUAGE is a software program which is necessary when connecting the device to a computer. When you install TOOLS for NUAGE, NUAGE Workgroup Manager, NUAGE Extension, and NUAGE PT Bridge (Mac only) will be installed. NUAGE Workgroup Manager is an application that allows control over the devices and DAW

software applications as a Workgroup on Nuage system. NUAGE Extension is a program that allows you to link the device with Nuendo (for versions which support the link function). NUAGE PT Bridge is an application that makes it possible to control* Pro Tools (Mac only) using Nuage Fader and Nuage Master devices. (*: basic functions only.)

TOOLS for NUAGE is available on the following website.
http://www.yamahaproaudio.com/downloads/

• Operation Manual

This is the PDF manual which explains the functions and how to use the device.

The Operation Manual is available on the following website.
http://www.yamahaproaudio.com/downloads/

How to Read the Manual

Types and Contents

• Getting Started

This is the manual (this book) included with the device. Read this manual when setting up the device.

• Operation Manual

This is the PDF manual downloaded from the website. Read this manual when needing information about the functions and how to use the device.

NOTE
To view PDF files, you will need to install Adobe Reader on your computer. You can download the latest Adobe Reader at the following website.
http://www.adobe.com/

Conventions

• Brackets and quotation marks

Brackets ([ ]) and quotation marks (“ ”) around names and phrases in this manual are used to indicate the following.

Mark	Indication target
[ ]	• Buttons, switches, indicators, terminals, etc. on the device. • Keys on a computer keyboard.
“ ”	• Menus, buttons, tabs, areas, windows, etc. on a computer window, software window, and touch screen. • Excerpts of messages, function names, terms in the manual, etc.

• Windows or Mac

When the procedures or explanations are specific to only one of the platforms, Windows or Mac, this is properly indicated in the manual. When the platforms do not appear, procedures or explanations are for both Windows and Mac.

• Procedures

“→” appears on some procedures in the manual. For example, the string “Devices” → “Device Setup” → “Control Panel” indicates that you should perform the procedures in the following order.

1. Click the “Devices” menu.
2. Select the “Device Setup” option.
3. Click the “Control Panel” button.

• Keyboard Shortcuts

[Windows modifier key]/ [Mac modifier key] + [key] shows the shortcut keys. For example, [Ctrl]/ [command] + [Z] means “press [Ctrl] under Windows or [command] under Mac, then press [Z].”

• Screens

This manual predominantly uses screenshots of Windows. However, Mac screenshots are used when instructions of the function apply only to the Mac. Also, this manual uses screenshots of Nuendo 6. If you are using another version of Nuendo, the actual screenshots might not be the same. For details, refer to the Nuendo manuals (PDF) opened from the “Help” menu.

Nuendo References

For brevity, the descriptions of Nuendo functions in this manual have been kept simple and basic. For details on Nuendo functions, refer to the Nuendo manuals (PDF) opened from the “Help” menu.

Setup

Overall Process

1. **Set up the device, LCD, computer, etc., then connect them. → "Setting and Connecting" (page 10)**

2. **Connect the power cable then turn the power on. → "Setting up the Power Supply" (page 11)**

3. **Install TOOLS for NUAGE. → "Installing TOOLS for NUAGE" (page 11)**

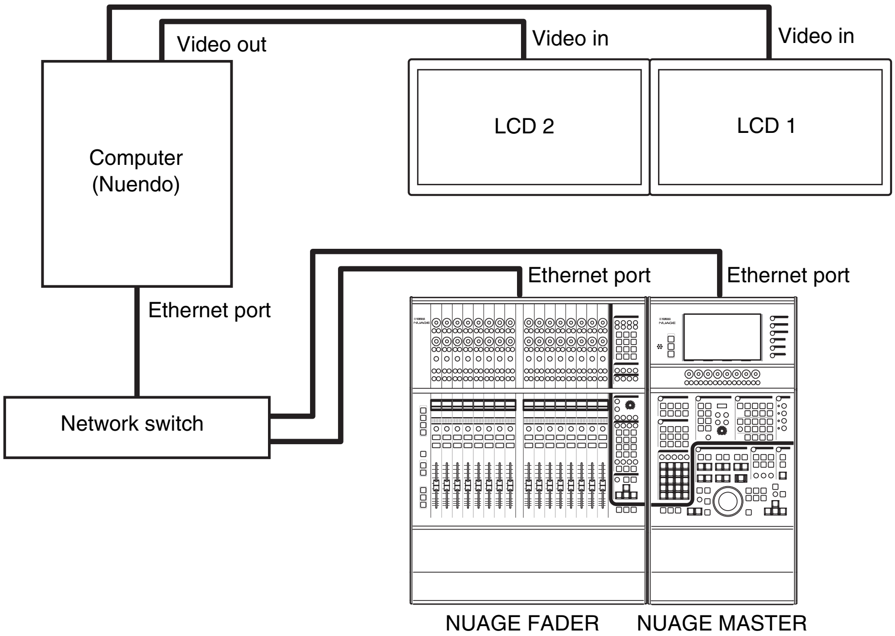
4. **Configure the Workgroup on NUAGE Workgroup Manager. → "Configuring the Workgroup on NUAGE" (page 11)**

Setting and Connecting

Set up and connect as required according to the following examples.

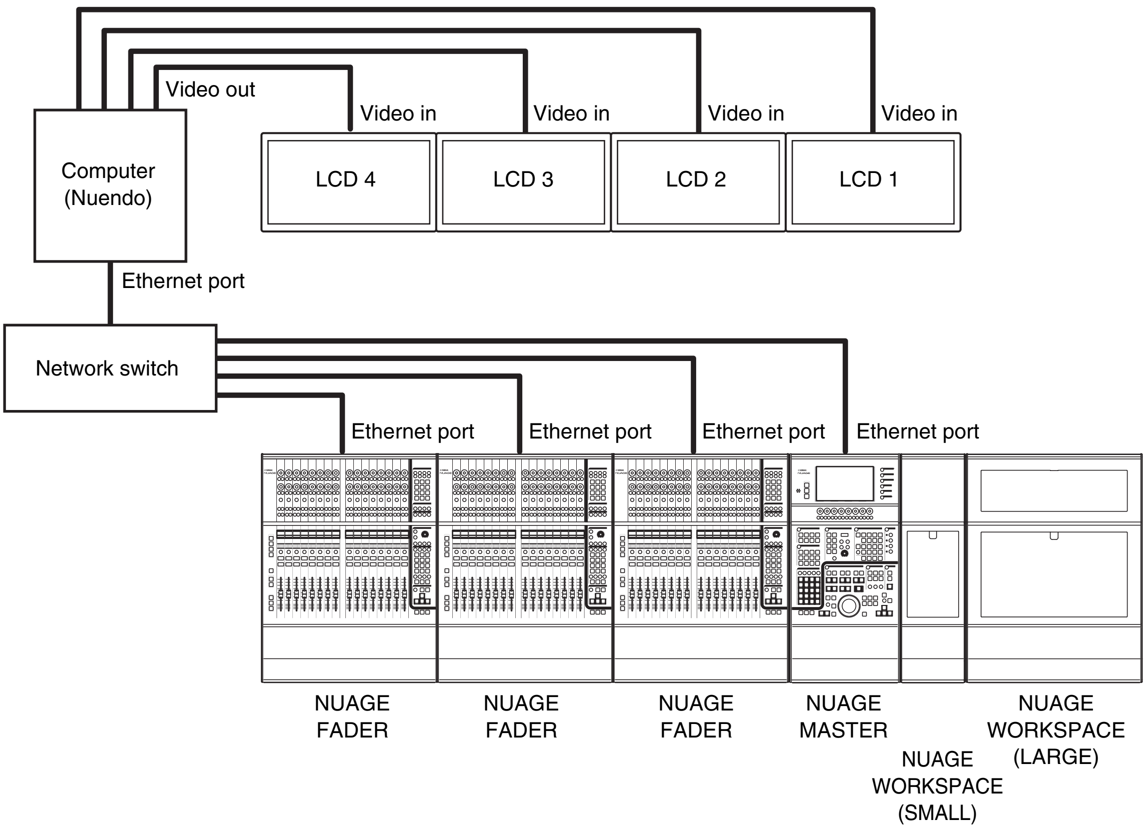
Example 1

NUAGE FADER x1, NUAGE MASTER x1



Example 2

NUAGE FADER x3, NUAGE MASTER x1, Optional NUAGE WORKSPACE (SMALL) x1, Optional NUAGE WORKSPACE (LARGE) x1



NOTE

Make the necessary OS settings for the LCD in front of the Nuage Master to be the primary display.

Setting up the Power Supply

1. **Insert one plug of the power cable into the [AC IN] terminal on the device.**

2. **Insert the other plug of the power cable into a proper AC wall outlet.**

3. **Turn on (|) the [Power switch] on the device.**

   NOTE
   Turn it off (⏻) when turning off the device.

⚠ ***WARNING***
Only use the included AC power cable (or an equivalent recommended by Yamaha). Using the wrong cable can result in damage to the device or overheating.

⚠ ***CAUTION***
Remove the electric plug from the outlet when the device is not be used for extended periods of time, or during electrical storms.

NOTICE
Rapidly turning the unit on and off in succession can cause it to malfunction. After turning the unit off, wait for at least 6 seconds before turning it on again.

Installing TOOLS for NUAGE

To install TOOLS for NUAGE, double-click the installer file you have downloaded from the website. For details, refer to the TOOLS for NUAGE installation guide.

Configuring the Workgroup on NUAGE

When you turn on a device or launch a DAW application for the first time, you will be asked to confirm whether you want to add it to the Workgroup. Click OK if you wish to do so. In the event that this confirmation message is not displayed, open the NUAGE Workgroup Manager then register the devices and DAW software applications to the Workgroup. For details, refer to the NUAGE Workgroup Manager operation manual (PDF).

NOTE
To open the NUAGE Workgroup Manager manual, double-click the NUAGE Workgroup Manager icon on the task tray (Windows) or menu bar (Mac) for opening the window, then click the “Manual” icon.

Setup is now completed.

Troubleshooting (in setting up)

Power does not turn on

- Is [Power switch] turned on?
- Is the power cable connected to a proper AC outlet?
- Is the power cable plug inserted all the way?

If the power still does not turn on, contact your Yamaha dealer.

Device is not communicating with Nuendo

- Is the Ethernet cable connected properly?
- Has “Installing TOOLS for NUAGE” (page 11) already been completed?
- Has “Configuring the Workgroup on NUAGE” (page 11) already been completed?
- Have the fire wall settings been set property?
- If a network adaptor for wireless LAN running, disable the suspected network adaptor.

In the LCD or organic EL display, there are some black points (unlit) or white points (always lit)

- These are the result of defective pixels and occasionally occur in the display; they do not indicate a problem in operation.

The touch sensitivity of the knob or fader is too high/low

- Change the touch sensitivity setting referring to “Adjusting the Touch Sensitivity” (page 13).

The brightness of the button or touch screen is too bright/dark

- Change the brightness setting referring to “Specifying the Brightness” (page 14).

Discrepancy occurs on the detection point of the touch screen

- Change the detection point setting referring to “Calibrating Detection Point of the Touch Screen” (page 14).

Appendix

Contents of the Operation Manual

Introduction
- How to Read the Manual

Description of the Device
- Top Panel
- Front Panel
- Rear Panel

Description of the Software Programs
- Pages Shown on the Multi Function Display
- NUAGE MASTER Setup
- NUAGE Workgroup Manager

Troubleshooting (in operation)

Appendix
- Contents of the Getting Started Manual
- Replacing Square-button Labels
- Control Pro Tools

Firmware Updates

This product is designed to allow the internal firmware to be updated in order to improve performance, add functionality, or fix problems. Firmware updates are performed with the product connected to a computer, so you must first install the "NUAGE Workgroup Manager" in your computer. You can install the NUAGE Workgroup Manager by installing "TOOLS for NUAGE" provided on the following website.

http://www.yamahaproaudio.com/

For details on the update procedure and settings, refer to the firmware update guide provided on the website.

Adjusting the Touch Sensitivity

NOTE

To adjust the touch sensitivity, the completion of "Setup" (page 9) then launch Nuendo are necessary.

To adjust the touch sensitivity, use the SETUP page displayed on the touch screen ([Multi function display]) on Nuage Master.

1. Press [SETUP] on the right side of [Multi function display].

The SETUP page is displayed.



2. Touch "Touch Sensitivity."

The "Touch Sensitivity" layer is selected, and the layer will be controllable by the knobs ([Multi function knob]) in the lower part of the [Multi function display].

3. Turn the [Multi function knob] to adjust the touch sensitivity.

Option	Description
Knob	Adjusts the sensitivity of the [Multi function knobs] on Nuage Fader and Nuage Master.
Slider	Adjusts the sensitivity of the slider ([Touch slider bar]) in the CHANNEL STRIP section on Nuage Fader.
Fader	Adjusts the sensitivity of the [Faders] in the CHANNEL STRIP section on Nuage Fader.
LCD	Adjusts the sensitivity of the [Multi function display] on Nuage Master.

The adjustments are now completed.

Specifying the Brightness

The way of specifying the brightness is the same as "Adjusting the Touch Sensitivity" (page 13). When the window is displayed, specify "Brightness."

Option	Description
LED Low	Specifies the brightness of the button when dim.
LED High	Specifies the brightness of the button when lit.
OLED	Specifies the brightness of organic EL display in both CHANNEL STRIP section on Nuage Fader and CONTROL ROOM section on Nuage Master.
LCD	Specifies the brightness of the [Multi function display] on Nuage Master.

Calibrating Detection Point of the Touch Screen

1. **Turn on the device with [ALT] held down.**
   You can release [ALT] once the menu appears on the [Multi function display].
2. **Select "TOUCH PANEL CALIBRATION" using the [▲]/[▼] buttons on the right side of the [Jog wheel] and then press [ENTER].**
3. **Select "YES" then press [ENTER].**
4. **Press and hold the symbol shown on-screen.**
   When the next symbol is shown, press and hold it. This procedure must be repeated several times.
5. **When adjustment is complete, the display will return to the top menu. Select "EXIT" and press [ENTER].**
   The Nuage Master will restart.

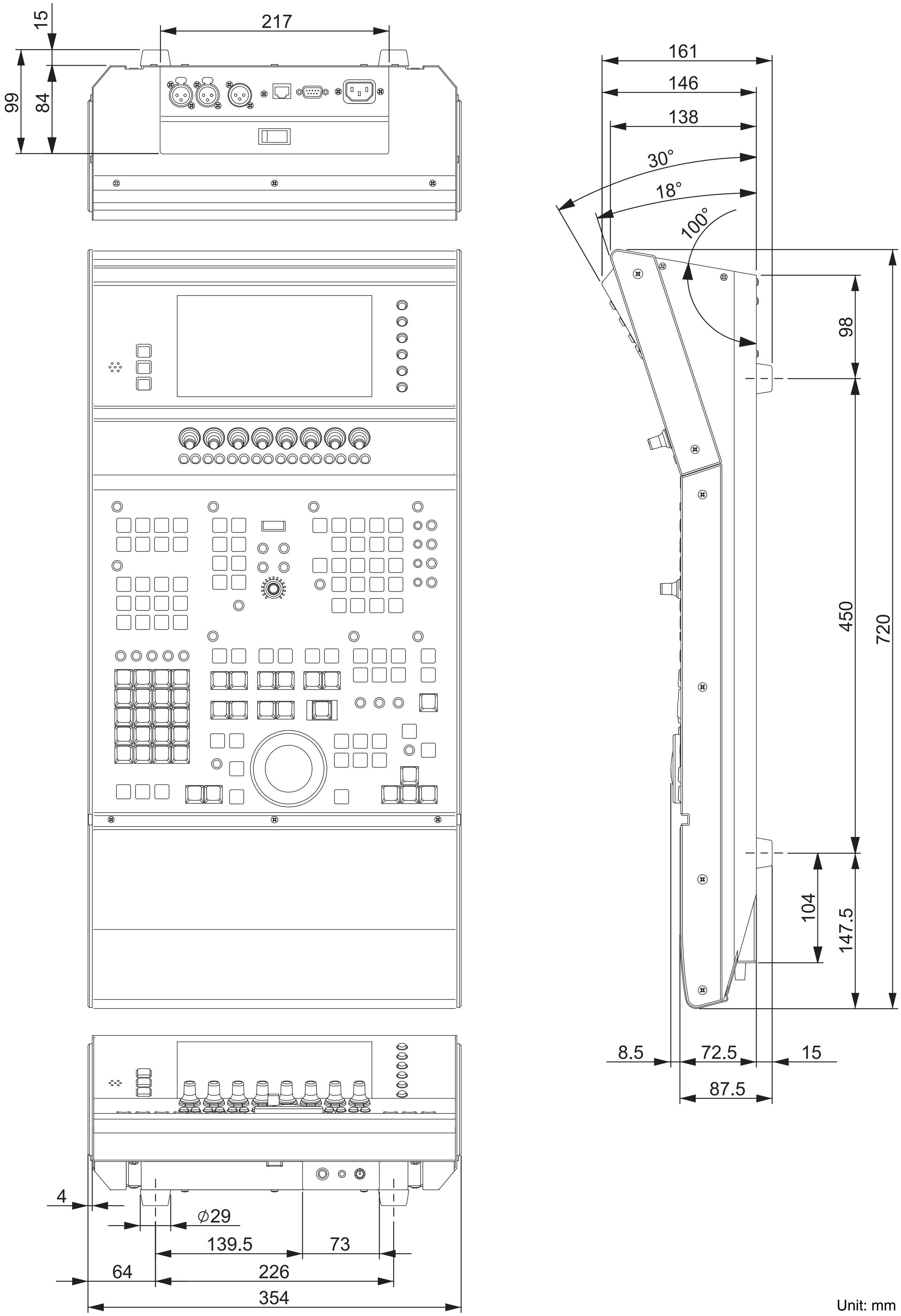
The adjustments are now completed.

Resetting to the Factory Default Condition

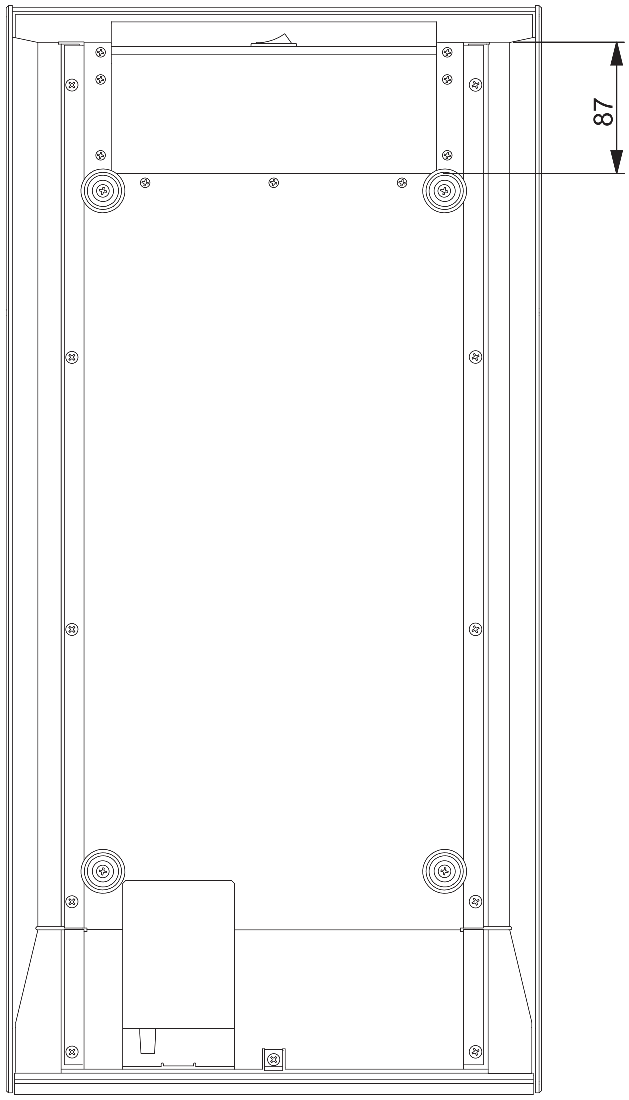
NOTE
Resetting the device to the factory default condition has no effect on Nuendo or Nuendo projects that you have created.

The procedure for resetting the device to the factory default condition (i.e., initialization) is similar to that described above in "Calibrating Detection Point of the Touch Screen". In this case, however, you should select "INITIALIZE MEMORIES" when the menu appears. When the device has been reset, the display will return to the menu. Select "EXIT" and press [ENTER].

Dimensions



Unit: mm



Unit: mm

Specifications

ELECTRICAL CHARACTERISTICS

All level controls are the nominal position. Output impedance of signal generator:150ohms. 0dBu = 0.775Vrms

	input	output	RL	CONDITIONS	MIN	TYP	MAX	UNITS
Frequency Response	TO PHONES	Phones A or B	8Ω	Phones level control max, Input level +4dBu(typ), 20Hz-20kHz, ref to the nominal output level @1kHz	-3	0.0	0.5	dB
Total Harmonic Distortion[*1]	TO PHONES	Phones A or B	8Ω	+4dB@20Hz-20kHz, Phones level control max			0.04	%
Hum&Noise[*2]	TO PHONES	Phones A or B	8Ω	residual output noise, Phones level control min			-100	dBu
Crosstalk@1kHz[*3]	CH L	Phones out CH R	–	L/R, adjacent inputs			-80	dB
	CH R	Phones out CH L	–					

	CONDITIONS	MIN	TYP	MAX	UNITS
Power Requirements	US/Canada: 120V 60Hz Japan: 100V 50/60Hz China: 110-240V 50/60Hz Korea: 220V 60Hz Other: 110-240V 50/60Hz		30		W
Temperature range	Operating temperature range	0		40	°C
	Storage temperature range	-20		60	°C

ANALOG INPUT CHARACTERISTICS

Input Terminals	Actual Load Impedance	For Use With Nominal	GAIN	Input level		Connector in Console
				Nominal	Max. before clip	
TO PHONES	20KΩ (BAL)	150Ω Lines	0dB	+4dBu (1.23 V)	+30dBu (24.56 V)	XLR3-31type connectors[*4]

ANALOG OUTPUT CHARACTERISTICS

Output Terminals	Actual Source Impedance	For Use With Nominal	GAIN SW	Output level		Connector in Console
				Nominal	Max. before clip	
PHONES A	100Ω	8Ω Phones	–	4mW	25mW	Stereo Phone Jack (TRS) (Unbalanced) [*5]
		40Ω Phones	–	12mW	75mW	
PHONES B	100Ω	8Ω Phones	–	4mW	25mW	Stereo Phone Mini Jack (TRS) (Unbalanced) [*5]
		40Ω Phones	–	12mW	75mW	
TALKBACK OUT	75Ω	600Ω Lines	–	+4dBu (1.23 V)	+24dBu (12.3 V)	XLR-3-32 type (Balanced) [*4]

CONTROL I/O CHARACTERISTICS

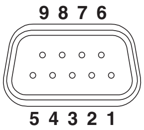
Terminal	Format	Connector in Console
NETWORK	IEEE802.3 (10Base-T/100Base-TX)	RJ-45
REMOTE	RS-232C	D-SUB Connector 9P (Male)

*1 Total Harmonic Distortion is measured with 80kHz LPF.
*2 Hum & Noise are measured with A-weighting filter and 30kHz LPF.
*3 Crosstalk is measured with a -30dB/octave filter @22kHz.
*4 XLR-3-31 and XLR-3-32 type connectors are balanced.(1=GND, 2=HOT, 3=COLD)
*5 PHONES stereo phone jack is unbalanced. (Tip=LEFT, Ring=RIGHT, Sleeve=GND)

General Specifications

Dimensions (W x D x H)	354 x 720 x 161mm
Net Weight	10.0kg
Included Accessories	Jog wheel, Power cable, Brackets (2), Getting Started

CONNECTOR PIN ASSIGNMENTS



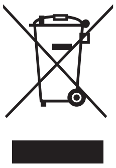
Pin No.	Signal
1	NC
2	RXD
3	TXD
4	NC
5	DGND
6	NC
7	NC
8	NC
9	NC
HOUSING	Frame GND

Specifications and descriptions in this manual are for information purposes only. Yamaha Corp. reserves the right to change or modify products or specifications at any time without prior notice. Since specifications, equipment or options may not be the same in every locale, please check with your Yamaha dealer.

European Models
Inrush Current based on EN 55103-1: 2009
3.0 A (on initial switch-on)
3.0 A (after a supply interruption of 5s)
Conforms to Environments: E1, E2, E3 and E4

Memo

Information for Users on Collection and Disposal of Old Equipment



This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.
For proper treatment, recovery and recycling of old products, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC.

By disposing of these products correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

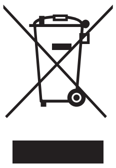
For more information about collection and recycling of old products, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

[For business users in the European Union]
If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

[Information on Disposal in other Countries outside the European Union]
This symbol is only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

(weee_eu_en_01)

Verbraucherinformation zur Sammlung und Entsorgung alter Elektrogeräte



Befindet sich dieses Symbol auf den Produkten, der Verpackung und/oder beiliegenden Unterlagen, so sollten benutzte elektrische Geräte nicht mit dem normalen Haushaltsabfall entsorgt werden.
In Übereinstimmung mit Ihren nationalen Bestimmungen und den Richtlinien 2002/96/EC bringen Sie alte Geräte bitte zur fachgerechten Entsorgung, Wiederaufbereitung und Wiederverwendung zu den entsprechenden Sammelstellen.

Durch die fachgerechte Entsorgung der Elektrogeräte helfen Sie, wertvolle Ressourcen zu schützen, und verhindern mögliche negative Auswirkungen auf die menschliche Gesundheit und die Umwelt, die andernfalls durch unsachgerechte Müllentsorgung auftreten könnten.

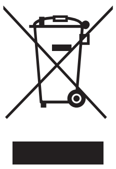
Für weitere Informationen zum Sammeln und Wiederaufbereiten alter Elektrogeräte kontaktieren Sie bitte Ihre örtliche Stadt- oder Gemeindeverwaltung, Ihren Abfallentsorgungsdienst oder die Verkaufsstelle der Artikel.

[Information für geschäftliche Anwender in der Europäischen Unio]
Wenn Sie Elektrogeräte ausrangieren möchten, kontaktieren Sie bitte Ihren Händler oder Zulieferer für weitere Informationen.

[Entsorgungsinformation für Länder außerhalb der Europäischen Union]
Dieses Symbol gilt nur innerhalb der Europäischen Union. Wenn Sie solche Artikel ausrangieren möchten, kontaktieren Sie bitte Ihre örtlichen Behörden oder Ihren Händler und fragen Sie nach der sachgerechten Entsorgungsmethode.

(weee_eu_de_01)

Information concernant la Collecte et le Traitement des déchets d'équipements électriques et électroniques.



Le symbole sur les produits, l'emballage et/ou les documents joints signifie que les produits électriques ou électroniques usagés ne doivent pas être mélangés avec les déchets domestiques habituels.
Pour un traitement, une récupération et un recyclage appropriés des déchets d'équipements électriques et électroniques, veuillez les déposer aux points de collecte prévus à cet effet, conformément à la réglementation nationale et aux Directives 2002/96/EC.

En vous débarrassant correctement des déchets d'équipements électriques et électroniques, vous contribuerez à la sauvegarde de précieuses ressources et à la prévention de potentiels effets négatifs sur la santé humaine qui pourraient advenir lors d'un traitement inapproprié des déchets.

Pour plus d'informations à propos de la collecte et du recyclage des déchets d'équipements électriques et électroniques, veuillez contacter votre municipalité, votre service de traitement des déchets ou le point de vente où vous avez acheté les produits.

[Pour les professionnels dans l'Union Européenne]
Si vous souhaitez vous débarrasser des déchets d'équipements électriques et électroniques veuillez contacter votre vendeur ou fournisseur pour plus d'informations.

[Information sur le traitement dans d'autres pays en dehors de l'Union Européenne]
Ce symbole est seulement valable dans l'Union Européenne. Si vous souhaitez vous débarrasser de déchets d'équipements électriques et électroniques, veuillez contacter les autorités locales ou votre fournisseur et demander la méthode de traitement appropriée.

(weee_eu_fr_01)

Información para Usuarios sobre Recolección y Disposición de Equipamiento Viejo

Este símbolo en los productos, embalaje, y/o documentación que se acompañe significa que los productos electrónicos y eléctricos usados no deben ser mezclados con desechos hogareños corrientes.
Para el tratamiento, recuperación y reciclado apropiado de los productos viejos, por favor llévelos a puntos de recolección aplicables, de acuerdo a su legislación nacional y las directivas 2002/96/EC.

Al disponer de estos productos correctamente, ayudará a ahorrar recursos valiosos y a prevenir cualquier potencial efecto negativo sobre la salud humana y el medio ambiente, el cual podría surgir de un inapropiado manejo de los desechos.

Para mayor información sobre recolección y reciclado de productos viejos, por favor contacte a su municipio local, su servicio de gestión de residuos o el punto de venta en el cual usted adquirió los artículos.

[Para usuarios de negocios en la Unión Europea]

Si usted desea deshacerse de equipamiento eléctrico y electrónico, por favor contacte a su vendedor o proveedor para mayor información.

[Información sobre la Disposición en otros países fuera de la Unión Europea]

Este símbolo sólo es válido en la Unión Europea. Si desea deshacerse de estos artículos, por favor contacte a sus autoridades locales y pregunte por el método correcto de disposición.

(weee_eu_es_01)

Informazioni per gli utenti sulla raccolta e lo smaltimento di vecchia attrezzatura

Questo simbolo sui prodotti, sull’imballaggio e/o sui documenti che li accompagnano significa che i prodotti elettrici ed elettronici non dovrebbero essere mischiati con i rifiuti domestici generici.
Per il trattamento, recupero e riciclaggio appropriati di vecchi prodotti, li porti, prego, ai punti di raccolta appropriati, in accordo con la Sua legislazione nazionale e le direttive 2002/96/CE.

Smaltendo correttamente questi prodotti, Lei aiuterà a salvare risorse preziose e a prevenire alcuni potenziali effetti negativi sulla salute umana e l'ambiente, che altrimenti potrebbero sorgere dal trattamento improprio dei rifiuti.

Per ulteriori informazioni sulla raccolta e il riciclaggio di vecchi prodotti, prego contatti la Sua amministrazione comunale locale, il Suo servizio di smaltimento dei rifiuti o il punto vendita dove Lei ha acquistato gli articoli.

[Per utenti imprenditori dell'Unione europea]

Se Lei desidera disfarsi di attrezzatura elettrica ed elettronica, prego contatti il Suo rivenditore o fornitore per ulteriori informazioni.

[Informazioni sullo smaltimento negli altri Paesi al di fuori dell'Unione europea]

Questo simbolo è valid0 solamente nell'Unione Europea. Se Lei desidera disfarsi di questi articoli, prego contatti le Sue autorità locali o il rivenditore e richieda la corretta modalità di smaltimento.

(weee_eu_it_01)

Important Notice: Guarantee Information for customers in European Economic Area (EEA) and Switzerland

English

Important Notice: Guarantee Information for customers in EEA* and Switzerland
For detailed guarantee information about this Yamaha product, and Pan-EEA* and Switzerland warranty service, please either visit the website address below (Printable file is available at our website) or contact the Yamaha representative office for your country. * EEA: European Economic Area

Deutsch

Wichtiger Hinweis: Garantie-Information für Kunden in der EWR* und der Schweiz
Für nähere Garantie-Information über dieses Produkt von Yamaha, sowie über den Pan-EWR*- und Schweizer Garantieservice, besuchen Sie bitte entweder die folgend angegebene Internetadresse (eine druckfähige Version befindet sich auch auf unserer Webseite), oder wenden Sie sich an den für Ihr Land zuständigen Yamaha-Vertrieb. *EWR: Europäischer Wirtschaftsraum

Français

Remarque importante: informations de garantie pour les clients de l'EEE et la Suisse
Pour des informations plus détaillées sur la garantie de ce produit Yamaha et sur le service de garantie applicable dans l'ensemble de l'EEE ainsi qu'en Suisse, consultez notre site Web à l'adresse ci-dessous (le fichier imprimable est disponible sur notre site Web) ou contactez directement Yamaha dans votre pays de résidence. * EEE : Espace Economique Européen

Nederlands

Belangrijke mededeling: Garantie-informatie voor klanten in de EER* en Zwitserland
Voor gedetailleerde garantie-informatie over dit Yamaha-product en de garantieservice in heel de EER* en Zwitserland, gaat u naar de onderstaande website (u vind een afdrukbaar bestand op onze website) of neemt u contact op met de vertegenwoordiging van Yamaha in uw land. * EER: Europese Economische Ruimte

Español

Aviso importante: información sobre la garantía para los clientes del EEE* y Suiza
Para una información detallada sobre este producto Yamaha y sobre el soporte de garantía en la zona EEE* y Suiza, visite la dirección web que se incluye más abajo (la version del archivo para imprimir esta disponible en nuestro sitio web) o póngase en contacto con el representante de Yamaha en su país. * EEE: Espacio Económico Europeo

Italiano

Avviso importante: informazioni sulla garanzia per i clienti residenti nell'EEA* e in Svizzera
Per informazioni dettagliate sulla garanzia relativa a questo prodotto Yamaha e l'assistenza in garanzia nei paesi EEA* e in Svizzera, potete consultare il sito Web all'indirizzo riportato di seguito (è disponibile il file in formato stampabile) oppure contattare l'ufficio di rappresentanza locale della Yamaha. * EEA: Area Economica Europea

Português

Aviso importante: informações sobre as garantias para clientes da AEE* e da Suíça
Para obter uma informação pormenorizada sobre este produto da Yamaha e sobre o serviço de garantia na AEE* e na Suíça, visite o site a seguir (o arquivo para impressão está disponível no nosso site) ou entre em contato com o escritório de representação da Yamaha no seu país. * AEE: Área Econômica Européia

Ελληνικά

Σημαντική σημείωση: Πληροφορίες εγγύησης για τους πελάτες στον ΕΟΧ* και Ελβετία
Για λεπτομερείς πληροφορίες εγγύησης σχετικά με το παρόν προϊόν της Yamaha και την κάλυψη εγγύησης σε όλες τις χώρες του ΕΟΧ και την Ελβετία, επισκεφτείτε την παρακάτω ιστοσελίδα (Εκτυπώσιμη μορφή είναι διαθέσιμη στην ιστοσελίδα μας) ή απευθυνθείτε στην αντιπροσωπεία της Yamaha στη χώρα σας. * ΕΟΧ: Ευρωπαϊκός Οικονομικός Χώρος

Svenska

Viktigt: Garantiinformation för kunder i EES-området* och Schweiz
För detaljerad information om denna Yamahaprodukt samt garantiservice i hela EES-området* och Schweiz kan du antingen besöka nedanstående webbaddress (en utskriftsvänlig fil finns på webbplatsen) eller kontakta Yamahas officiella representant i ditt land. * EES: Europeiska Ekonomiska Samarbetsområdet

Norsk

Viktig merknad: Garantiinformasjon for kunder i EØS* og Sveits
Detaljert garantiinformasjon om dette Yamaha-produktet og garantiservice for hele EØS-området* og Sveits kan fås enten ved å besøke nettadressen nedenfor (utskriftsversjon finnes på våre nettsider) eller kontakte kontakte Yamaha-kontoret i landet der du bor. *EØS: Det europeiske økonomiske samarbeidsområdet

Dansk

Vigtig oplysning: Garantioplysninger til kunder i EØO* og Schweiz
De kan finde detaljerede garantioplysninger om dette Yamaha-produkt og den fælles garantiserviceordning for EØO* (og Schweiz) ved at besøge det websted, der er angivet nedenfor (der findes en fil, som kan udskrives, på vores websted), eller ved at kontakte Yamahas nationale repræsentationskontor i det land, hvor De bor. * EØO: Det Europæiske Økonomiske Område

Suomi

Tärkeä ilmoitus: Takuutiedot Euroopan talousalueen (ETA)* ja Sveitsin asiakkaille
Tämän Yamaha-tuotteen sekä ETA-alueen ja Sveitsin takuuta koskevat yksityiskohtaiset tiedot saatte alla olevasta nettiosoitteesta. (Tulostettava tiedosto saatavissa sivustollamme.) Voitte myös ottaa yhteyttä paikalliseen Yamaha-edustajaan.
*ETA: Euroopan talousalue

Polski

Ważne: Warunki gwarancyjne obowiązujące w EOG* i Szwajcarii
Aby dowiedzieć się więcej na temat warunków gwarancyjnych tego produktu firmy Yamaha i serwisu gwarancyjnego w całym EOG* i Szwajcarii, należy odwiedzić wskazaną poniżej stronę internetową (Plik gotowy do wydruku znajduje się na naszej stronie internetowej) lub skontaktować się z przedstawicielstwem firmy Yamaha w swoim kraju. * EOG — Europejski Obszar Gospodarczy

Česky

Důležité oznámení: Záruční informace pro zákazníky v EHS* a ve Švýcarsku
Podrobné záruční informace o tomto produktu Yamaha a záručním servisu v celém EHS* a ve Švýcarsku naleznete na níže uvedené webové adrese (soubor k tisku je dostupný na našich webových stránkách) nebo se můžete obrátit na zastoupení firmy Yamaha ve své zemi. * EHS: Evropský hospodářský prostor

Magyar

Fontos figyelmeztetés: Garancia-információk az EGT* területén és Svájcban élő vásárlók számára
A jelen Yamaha termékre vonatkozó részletes garancia-információk, valamint az EGT*-re és Svájcra kiterjedő garanciális szolgáltatás tekintetében keresse fel webhelyünket az alábbi címen (a webhelyen nyomtatható fájlt is talál), vagy pedig lépjen kapcsolatba az országában működő Yamaha képviseleti irodával. * EGT: Európai Gazdasági Térség

Eesti keel

Oluline märkus: Garantiiteave Euroopa Majanduspiirkonna (EMP)* ja Šveitsi klientidele
Täpsema teabe saamiseks selle Yamaha toote garantii ning kogu Euroopa Majanduspiirkonna ja Šveitsi garantiiteeninduse kohta, külastage palun veebisaiti alljärgneval aadressil (meie saidil on saadaval prinditav fail) või pöörduge Teie regiooni Yamaha esinduse poole. * EMP: Euroopa Majanduspiirkond

Latviešu

Svarīgs paziņojums: garantijas informācija klientiem EEZ* un Šveicē
Lai saņemtu detalizētu garantijas informāciju par šo Yamaha produktu, kā arī garantijas apkalpošanu EEZ* un Šveicē, lūdzu, apmeklējiet zemāk norādīto tīmekļa vietnes adresi (tīmekļa vietnē ir pieejams drukājams fails) vai sazinieties ar jūsu valsti apkalpojošo Yamaha pārstāvniecību. * EEZ: Eiropas Ekonomikas zona

Lietuvių kalba

Dėmesio: informacija dėl garantijos pirkėjams EEE* ir Šveicarijoje
Jei reikia išsamios informacijos apie šį „Yamaha" produktą ir jo techninę priežiūrą visoje EEE* ir Šveicarijoje, apsilankykite mūsų svetainėje toliau nurodytu adresu (svetainėje yra spausdintinas failas) arba kreipkitės į „Yamaha" atstovybę savo šaliai.
*EEE – Europos ekonominė erdvė

Slovenčina

Dôležité upozornenie: Informácie o záruke pre zákazníkov v EHP* a Švajčiarsku
Podrobné informácie o záruke týkajúce sa tohto produktu od spoločnosti Yamaha a garančnom servise v EHP* a Švajčiarsku nájdete na webovej stránke uvedenej nižšie (na našej webovej stránke je k dispozícii súbor na tlač) alebo sa obráťte na zástupcu spoločnosti Yamaha vo svojej krajine. * EHP: Európsky hospodársky priestor

Slovenščina

Pomembno obvestilo: Informacije o garanciji za kupce v EGP* in Švici
Za podrobnejše informacije o tem Yamahinem izdelku ter garancijskem servisu v celotnem EGP in Švici, obiščite spletno mesto, ki je navedeno spodaj (natisljiva datoteka je na voljo na našem spletnem mestu), ali se obrnite na Yamahinega predstavnika v svoji državi. * EGP: Evropski gospodarski prostor

Български език

Важно съобщение: Информация за гаранцията за клиенти в ЕИП* и Швейцария
За подробна информация за гаранцията за този продукт на Yamaha и гаранционното обслужване в паневропейската зона на ЕИП* и Швейцария или посетете посочения по-долу уеб сайт (на нашия уеб сайт има файл за печат), или се свържете с представителния офис на Yamaha във вашата страна. * ЕИП: Европейско икономическо пространство

Limba română

Notificare importantă: Informaţii despre garanţie pentru clienţii din SEE* şi Elveţia
Pentru informaţii detaliate privind acest produs Yamaha şi serviciul de garanţie Pan-SEE* şi Elveţia, vizitaţi site-ul la adresa de mai jos (fişierul imprimabil este disponibil pe site-ul nostru) sau contactaţi biroul reprezentanţei Yamaha din ţara dumneavoastră .
* SEE: Spaţiul Economic European

http://europe.yamaha.com/warranty/

For details of products, please contact your nearest Yamaha representative or the authorized distributor listed below.

Pour plus de détails sur les produits, veuillez-vous adresser à Yamaha ou au distributeur le plus proche de vous figurant dans la liste suivante.

Die Einzelheiten zu Produkten sind bei Ihrer unten aufgeführten Niederlassung und bei Yamaha Vertragshändlern in den jeweiligen Bestimmungsländern erhältlich.

Para detalles sobre productos, contacte su tienda Yamaha más cercana o el distribuidor autorizado que se lista debajo.

NORTH AMERICA

CANADA
Yamaha Canada Music Ltd.
135 Milner Avenue, Scarborough, Ontario,
M1S 3R1, Canada
Tel: 416-298-1311

U.S.A.
Yamaha Corporation of America
6600 Orangethorpe Ave., Buena Park, Calif. 90620, U.S.A.
Tel: 714-522-9011

CENTRAL & SOUTH AMERICA

MEXICO
Yamaha De México, S.A. de C.V.
Av. Insurgentes Sur 1647 “Prisma Insurgentes”,
Col. San José Insurgentes, Del. Benito Juárez,
03900, México, D.F.
Tel: 55-5804-0600

BRAZIL
Yamaha Musical do Brasil Ltda.
Rua Joaquim Floriano, 913 - 4' andar, Itaim Bibi,
CEP 04534-013 Sao Paulo, SP. BRAZIL
Tel: 011-3704-1377

ARGENTINA
Yamaha Music Latin America, S.A.
Sucursal de Argentina
Olga Cossettini 1553, Piso 4 Norte
Madero Este-C1107CEK
Buenos Aires, Argentina
Tel: 011-4119-7000

PANAMA AND OTHER LATIN AMERICAN COUNTRIES/ CARIBBEAN COUNTRIES
Yamaha Music Latin America, S.A.
Torre Banco General, Piso 7, Urbanización Marbella,
Calle 47 y Aquilino de la Guardia,
Ciudad de Panamá, Panamá
Tel: +507-269-5311

EUROPE

THE UNITED KINGDAM/IRELAND
Yamaha Music Europe GmbH (UK)
Sherbourne Drive, Tilbrook, Milton Keynes,
MK7 8BL, England
Tel: 01908-366700

GERMANY
Yamaha Music Europe GmbH
Siemensstraße 22-34, 25462 Rellingen, Germany
Tel: 04101-3030

SWITZERLAND/LIECHTENSTEIN
Yamaha Music Europe GmbH
Branch Switzerland in Zürich
Seefeldstrasse 94, 8008 Zürich, Switzerland
Tel: 044-387-8080

AUSTRIA/BULGARIA
Yamaha Music Europe GmbH Branch Austria
Schleiergasse 20, A-1100 Wien, Austria
Tel: 01-60203900

CZECH REPUBLIC/HUNGARY/ ROMANIA/SLOVAKIA/SLOVENIA
Yamaha Music Europe GmbH
Branch Austria (Central Eastern Europe Office)
Schleiergasse 20, A-1100 Wien, Austria
Tel: 01-602039025

POLAND/LITHUANIA/LATVIA/ESTONIA
Yamaha Music Europe GmbH
Branch Poland Office
ul. Wrotkowa 14 02-553 Warsaw, Poland
Tel: 022-500-2925

MALTA
Olimpus Music Ltd.
The Emporium, Level 3, St. Louis Street Msida
MSD06
Tel: 02133-2144

THE NETHERLANDS/ BELGIUM/LUXEMBOURG
Yamaha Music Europe Branch Benelux
Clarissenhof 5-b, 4133 AB Vianen, The Netherlands
Tel: 0347-358 040

FRANCE
Yamaha Music Europe
BP 70-77312 Marne-la-Vallée Cedex 2, France
Tel: 01-64-61-4000

ITALY
Yamaha Music Europe GmbH, Branch Italy
Viale Italia 88, 20020 Lainate (Milano), Italy
Tel: 02-935-771

SPAIN/PORTUGAL
Yamaha Music Europe GmbH Ibérica, Sucursal en España
Ctra. de la Coruna km. 17, 200, 28230
Las Rozas (Madrid), Spain
Tel: +34-902-39-8888

GREECE
Philippos Nakas S.A. The Music House
147 Skiathou Street, 112-55 Athens, Greece
Tel: 01-228 2160

SWEDEN/FINLAND/ICELAND
Yamaha Music Europe GmbH Germany filial Scandinavia
J. A. Wettergrens Gata 1, Box 30053
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